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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-22-54** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division
Agency	:	A Kumarreddy NO 44, Kaverinagara, A Block, Bangalore
Customer's Reference	:	EE(YNK D)E-PMT-19/W O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-22-54** **Date: 27-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-22-54** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-22-54** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-10-18

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-11-22-54** **Date: 31-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	29-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	12	12	1.2	98.8	90-100	90-100	90-100	95-100
3	2.36 mm	155	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	163	330	33.0	67.0	30-70	55-90	75-100	90-100
5	600 micron	224	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	272	826	82.6	17.4	5-20	8-30	12-40	15-50
7	150 micron	144	970	97.0	3.0	0-10	0-10	0-10	0-15
8	Pan	30	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-22-54** **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-18
Sample ID No	:	2018-11-22-54 /05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.54 X 150.42	22644	8.312	405.3	17.9	17.4
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.53 X 150.54 X 150.45	22661	8.331	403.4	17.8	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.32 X 150.44 X 150.36	22614	8.345	375.4	16.6	

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Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-22-54** **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-18
Sample ID No	:	2018-11-22-54 /07
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.52 X 150.54 X 150.45	22659	8.312	405.6	17.9	17.5
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.54 X 150.35	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.32 X 150.44 X 150.35	22614	8.345	382.2	16.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-11-22-54 **Date: 29/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.

Agency : A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/70/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-11-18

Sample ID No : 2018-11-22-54 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/11/2018	29/11/2018	150.32 X 150.36 X 150.38	22602	8.312	533.4	23.6	23.4
2	Drain Concrete	M20	01/11/2018	29/11/2018	150.24 X 150.42 X 150.43	22599	8.331	517.5	22.9	
3	Drain Concrete	M20	01/11/2018	29/11/2018	150.54 X 150.54 X 150.35	22662	8.345	537.1	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID	:	**CP-2018-11-22-54**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-11-18
Sample ID No	:	2018-11-22-54 /04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/11/2018	29/11/2018	150.43 X 150.36 X 150.24	22619	8.312	533.8	23.6	23.3
2	Drain Concrete	M20	01/11/2018	29/11/2018	150.43 X 150.46 X 150.42	22634	8.331	509.3	22.5	
3	Drain Concrete	M20	01/11/2018	29/11/2018	150.46 X 150.54 X 150.35	22650	8.345	539.1	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-11-22-54** **Date: 29/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A Kumarreddy NO.44, Kaverinagara, A Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-11-18
Sample ID No	:	2018-11-22-54 /06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/11/2018	29/11/2018	150.42 X 150.54 X 150.45	22644	8.312	536.7	23.7	23.4
2	Drain Concrete	M20	01/11/2018	29/11/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Drain Concrete	M20	01/11/2018	29/11/2018	150.32 X 150.54 X 150.35	22629	8.345	534.0	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2018

Lab ID	:	CP-2018-11-22-54
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-11-18
Sample ID No	:	2018-11-22-54 /08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/11/2018	29/11/2018	150.46 X 150.49 X 150.41	22643	8.312	532.1	23.5	23.4
2	Drain Concrete	M20	01/11/2018	29/11/2018	150.32 X 150.36 X 150.35	22602	8.331	517.6	22.9	
3	Drain Concrete	M20	01/11/2018	29/11/2018	150.39 X 150.49 X 150.37	22632	8.345	540.9	23.9	

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	CP-2018-11-22-54
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-10-18

Date: 31-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	513	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	529	673	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	543	669	20.0%	Satisfactory	Satisfactory

A.E.E

Note:

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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-11-22-54

Date: 03-11-18

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.

Agency : A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/70/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-18

Sample ID No : 2018-11-22-54 /06

Sample Type /Size : Precast Cover Slab(100mm thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.04	1.388	4474	86.5	19.3	18.0	22.5
2	Cover Slab-2	75.49	100.01	1.379	4475	88.4	19.8	18.4	23.0
3	Cover Slab-3	75.46	100.03	1.385	4471	85.9	19.2	17.9	22.3

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-11-22-54**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-18
Sample ID No	:	2018-11-22-54 /06
Sample Type /Size	:	Precast Cover Slab(200mm thick)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/10/2018

Date: 03-11-18

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.02	200.18	3.145	17673	308.9	17.5	16.3	20.3
2	Cover Slab-2	150.04	200.15	3.122	17678	303.9	17.2	16.0	20.0
3	Cover Slab-3	150.06	200.17	3.142	17682	304.1	17.2	16.0	20.0

AE-1
A.E.E

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-11-22-54 **Date: 08/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency : A.Kumarreddy NO:44, Kaverinagara, A. Block, Bangalore.
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/70/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-11-18
Sample ID No : 2018-11-22-54 /01
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	01/11/2018	08/11/2018	150.44 X 150.56 X 150.49	22650	8.312	387.3	17.1	17.3
2	Drain Concrete	M20	01/11/2018	08/11/2018	150.42 X 150.56 X 150.45	22647	8.331	405.4	17.9	
3	Drain Concrete	M20	01/11/2018	08/11/2018	150.42 X 150.54 X 150.45	22644	8.345	382.7	16.9	

Note:
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-11-22-54 **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi Layout back side(mani house road) and surrounding area in Ward no-01of Yelahanka Sub Division.
Agency	:	A.Kumarreddy NO 44, Kaverinagara, A. Block, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-19/W.O/70/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-18
Sample ID No	:	2018-11-22-54 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.54 X 150.46	22644	8.312	394.0	17.4	17.2
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.36 X 150.56 X 150.34	22638	8.345	371.3	16.4	

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